

Form PTO-1449 (Modified)
(Rev. 11-92)

MAR 12 2002

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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(37 CFR 1.98(b))

ATTY. DOCKET NO.

SERIAL NO.

0254-080

09 761,210

APPLICANT

Carmen D. Burns

FILING DATE

01 16 2001

GROUP

2814

U.S. PATENT DOCUMENTS

*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AC	3,246,386	04 19 1966	Ende	29 155.5		01 26 1962
CJC	3,287,606	11 22 1966	Schwartz	317 101		12 16 1964
CJC	3,290,559	12 06 1966	Kirby	317 101		06 16 1964
gju	3,313,986	04 11 1967	Kilby	317 101		12 23 1965
gju	3,377,516	08 04 1966	Ellett	317 101		08 04 1966
gju	3,403,300	09 24 1968	Horowitz, et al	317 101		09 01 1966
gju	3,436,604	04 1969	Hyltin, et al	317 101		04 25 1966
CJA	3,515,949	06 02 1970	Michaels	317 101		11 22 1967

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No
2-260448	10 1990	Japan			Yes	
3-167868A	07 19 1991	Japan			Yes	
3-96266	04 1991	Japan			Yes	
4-209562	07 30 1992	Japan			Yes	
57-31166A	02 19 1982	Japan			Yes	
58-112348A	04 07 1983	Japan			Yes	
58-219757A	12 21 1983	Japan			Yes	
58-96756A	08 06 1983	Japan			Yes	
60-160641	08 1985	Japan			Yes	
60-254762A	12 16 1985	Japan			Yes	
61-163652A	07 24 1986	Japan			Yes	
61-219143A	09 29 1986	Japan			Yes	
61-63048	04 1986	Japan			Yes	
61-75558A	04 17 1986	Japan			Yes	
62-230027A	08 10 1987	Japan			Yes	
63-117451A	05 21 1988	Japan			Yes	
63-153849A	06 27 1988	Japan			Yes	

OTHER DOCUMENTS

(INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AC	Dense-Pac Microsystems, Inc., Catalog describing two products: DPS512X16A3 Ceramic 512KX16 CMOS SRAM Module, pp. 865-870
	Dense-Pac Microsystems, Inc., "Memory Products-ShortForm-Q4," 1994, 5 pages.
	Dense-Pac Microsystems, Inc., "Short Order Catalog," 1990, 12 pages.
	Dense-Pac Microsystems, Inc., "Short Form Catalog," 1991, 20 pages.
	Dense-Pac Microsystems, Inc., "3-D Technology," 1993, 15 pages.
	Dense-Pac Microsystems, Inc., 16-Megabit High Speed CMOS SRAM.
	Dense-Pac Microsystems, Inc., 128-Megabyte SDRAM Soddimm.
	Dense-Pac Microsystems, Inc., 256-Megabyte CMOS DRAM.
AC	Dense-Pac Microsystems, Inc. flyer "While others are still defining it... Our customers are cashing in!"

EXAMINER

Alonso Chambers

DATE CONSIDERED

11/15/04

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U.S. PATENT DOCUMENTS

*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AC Cg	3,535,595	10 20 1970	Moore	317 101		11 09 1967
AC Cg	3,614,541	10 19 1971	Farrand	317 101		04 08 1969
AC Cg	3,614,546	10 1971	Avins	174 234		01 07 1970
AC Cg	3,671,812	06 20 1972	Peluso, et al	317 118		07 01 1970
AC Cg	3,713,893	01 1973	Shirland	136 89		02 17 1967
AC Cg	3,727,064	04 1973	Bottini	250 217		03 17 1971
AC Cg	3,739,462	06 19 1973	Hasty	29 577		01 06 1971
AC Cg	3,746,934	07 17 1973	Stein	317 101		05 06 1971
AC Cg	3,925,801	12 09 1975	Haitz, et al	357 19		12 09 1975
AC Cg	3,949,274	04 06 1976	Anacker	317 101		05 30 1974
AC Cg	3,959,579	05 25 1976	Johnson	174 68.5		08 19 1974
AC Cg	4,017,963	04 19 1977	Beyerlein	29 577		05 19 1975
AC Cg	4,103,318	07 25 1978	Schwede	361 388		07 25 1978
AC Cg	4,116,518	09 26 1978	Pleskac	339 17		08 31 1977
AC Cg	4,116,519	09 26 1978	Grahbe, et al	339 17		08 02 1977
AC Cg	4,158,745	06 19 1979	Keller	174 52		10 27 1977
AC Cg	4,241,493	12 30 1980	Andrulis, et al	29 572		12 22 1978

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No
AC 834-957	05 30 1981	SU			Yes	

OTHER DOCUMENTS

(INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AC	Tuckerman, D.B. et al., "Laminated Memory: A New 3-Dimensional Packaging Technology for MCMs" article, nCHIP, Inc., IEEE, 1994.
	1992 Proceedings, 42 nd Electronic Components & Technology Conference, May 18-20, 1992.
	Research Disclosure, Organic Card Device Carrier, 31318, May 1990, No. 313.
	"Introducing a Revolutionary 3 Dimensional Package Type The SLCC," John Forthun, Advancement in Technology, Feb. 26, 1992, 12 pages.
	"New levels of hybrid IC density are provided by Three-Dimensional Packaging" article, 2 pages.
AC	3-D Integrated Packaging and Interconnect Technology; Wescon 90 Conference Record, held 13-15 Nov. 1990, Anaheim, CA.

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Adrian Chambliss

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Carmen D. Burns

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U.S. PATENT DOCUMENTS

*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AC CJA	4,288,808	09/08/1981	Hantusch	357 68		01/23/1979
AC CJA	4,288,841	09/08/1981	Gogal	361 414		09/20/1979
AC CJA	4,321,418	03/23/1982	Dran, et al	136 251		05/08/1980
AC CJA	4,331,258	05/1982	Geschwind	220 359		03/05/1981
AC CJA	4,364,620	12/21/1982	Mulholland, et al	339 17		09/05/1980
AC CJA	4,371,912	02/01/1983	Guzik	361 417		10/01/1980
AC CJA	4,379,259	04/05/1983	Varadi, et al	324 73		03/12/1980
AC CJA	4,394,712	07/19/1983	Anthony	361 411		03/18/1981
AC CJA	4,398,235	08/09/1983	Lutz, et al	361 393		09/11/1980
AC CJA	4,437,235	03/20/1984	Melver	29 840		08/23/1982
AC CJA	4,451,973	06/05/1984	Tateno, et al	29 588		04/13/1982
AC CJA	4,521,828	06/04/1985	Fanning	361 386		12/23/1982
AC CJA	4,525,921	07/02/1985	Carson, et al	29 577		07/25/1983
AC CJA	4,571,663	02/18/1986	McPherson	361 393		06/13/1983
AC CJA	4,574,331	03/04/1986	Smollev	361 393		05/31/1983
AC CJA	4,630,172	12/16/1986	Stenerson, et al	361 386		03/09/1983
AC CJA	4,631,573	12/23/1986	Sutrina	357 82		05/24/1985
AC CJA	4,633,573	01/06/1987	Scherer	29 589		05/23/1984
AC CJA	4,638,406	01/20/1987	Samson	361 403		04/14/1986

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AC	Christian VAL and Thierry Lenoir, 3d Interconnection for Ultra-Dense Multichip Modules, IEEE, pp. 540-547.
AC	Dean Frew, "High Density Memory Packaging Technology High Speed Imaging Applications," SPIE, vol. 1346 Ultra-high and High-Speed Photography, Videography, Photonics, and Velocimetry '90, pp. 200-209.
AC	Alvin Weinburg and W. Kinzy Jones, "Vertically-Integrated Package," IEEE, pp. 436-443.

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U.S. PATENT DOCUMENTS

*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AE	4,638,348	01 20 1987	Brown, et al	357 74		08 08 1983
AC	4,642,735	02 10 1987	Hodsdon, et al	361 424		02 27 1984
AC	4,680,617	07 14 1987	Ross	357 72		05 23 1984
AC	4,684,975	08 04 1987	Takiar, et al	357 70		12 16 1985
AC	4,688,864	08 25 1987	Sorel	439 74		03 28 1986
AC	4,696,525	09 29 1987	Coller, et al	439 69		12 13 1985
AC	4,698,663	10 06 1987	Sugimoto, et al	357 81		12 03 1986
AC	4,706,166	11 10 1987	Go	361 403		04 25 1986
AC	4,712,129	12 08 1987	Orcutt	357 84		09 30 1985
AC	4,722,060	01 26 1988	Quinn, et al	364 490		03 22 1984
AC	4,733,461	03 29 1988	Nakano	29 830		12 24 1985
AE	4,761,681	08 02 1988	Reid	357 68		09 08 1982
AC	4,763,188	08 09 1988	Johnson	357 74		11 04 1987
AE	4,770,640	09 13 1988	Walter	439 69		06 24 1983
AC	4,796,078	01 03 1989	Phelps, Jr., et al	357 68		06 15 1987
AE	4,821,007	04 11 1989	Fields, et al	333 238		02 06 1987
AC	4,821,148	04 11 1989	Kobayashi, et al	361 392		06 04 1986
AE	4,823,234	04 18 1989	Konishi, et al	361 386		06 01 1986
AC	4,829,403	05 09 1989	Harding	361 386		01 20 1987

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					Yes	No

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(INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AE	IBM Technical Disclosure Bulletin, vol. 20 No. 11A Apr. 1978.
AE	IBM Technical Disclosure Bulletin, vol. 23 No. 12 May 1981
AE	IBM Technical Disclosure Bulletin, vol. 32 No. 3B Aug. 1989.

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U.S. PATENT DOCUMENTS

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AC <i>gja</i>	4,833,568	05 22 1989	Berhold	361 383		01 29 1988
AC <i>gja</i>	4,839,717	06 12 1989	Phy, et al	357 74		06 07 1988
AC <i>gja</i>	4,841,355	06 20 1989	Parks	357 82		02 10 1988
AC <i>gja</i>	4,855,868	08 08 1989	Harding	361 386		07 20 1987
AC <i>gja</i>	4,862,245	08 29 1989	Pashby, et al	357 70		02 19 1988
AC <i>gja</i>	4,862,249	08 29 1989	Carlson	357 80		04 17 1987
AC <i>gja</i>	4,868,712	09 19 1989	Woodman	361 388		10 27 1987
AC <i>gja</i>	4,878,106	10 31 1989	Sachs	357 72		05 06 1988
AC <i>gja</i>	4,884,237	11 28 1989	Mueller, et al	365 63		03 17 1989
AC <i>gja</i>	4,891,789	01 02 1990	Quattrini, et al	365 63		03 03 1988
AC <i>gja</i>	4,924,352	05 08 1990	Septions	361 388		12 21 1988
AC <i>gja</i>	4,948,645	08 14 1990	Holzinger, et al	428 40		08 01 1989
AC <i>gja</i>	4,953,005	08 28 1990	Carlson, et al	357 80		04 15 1988
AC <i>gja</i>	4,953,060	08 28 1990	Lauffer, et al	361 388		05 05 1989
AC <i>gja</i>	4,956,694	09 11 1990	Eide	357 74		11 04 1988
AC <i>gja</i>	4,994,411	02 19 1991	Naito, et al	437 209		03 10 1989
AC <i>gja</i>	4,996,583	02 26 1991	Hatada	357 70		02 09 1990
AC <i>gja</i>	4,996,587	02 26 1991	Hinrichsmeyer, et al	357 74		03 23 1990
AC <i>gja</i>	4,997,517	03 15 1991	Parthasarathi	156 630		01 09 1990

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					Yes	No

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U.S. PATENT DOCUMENTS

*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AC ga	5,001,545	03 19 1991	Kalfus, et al	357 70		09 09 1988
AC ga	5,014,113	05 07 1991	Casto	357 70		12 27 1989
AC ga	5,016,138	05 14 1991	Woodman	361 381		09 18 1989
AC ga	5,025,307	06 18 1991	Ueda, et al	357 80		03 29 1990
AC ga	5,031,072	07 09 1991	Malhi, et al	361 387		01 31 1990
AC ga	5,041,015	08 20 1991	Travis	439 492		03 30 1990
AC ga	5,041,395	08 20 1991	Steffen	437 206		04 05 1990
AC ga	5,043,794	08 27 1991	Tai, et al	357 74		09 24 1989
AC ga	5,049,527	09 17 1991	Merrick, et al	437 220		06 09 1989
AC ga	5,057,903	10 15 1991	Olla	357 72		11 08 1990
AC ga	5,057,906	10 15 1991	Ishigami	357 80		05 18 1990
AC ga	5,058,265	10 22 1991	Goldfarb	29 852		09 10 1990
AC ga	5,065,277	11 12 1991	Davidson	361 383		07 13 1990
AC ga	5,068,708	11 26 1991	Newman	357 68		10 02 1989
AC ga	5,086,018	02 04 1992	Conru, et al	437 207		05 02 1991
AC ga	5,099,393	03 24 1992	Bentlage, et al	361 413		03 25 1991
AC ga	5,107,328	04 21 1992	Kinsman	357 74		02 13 1991
AC ga	5,108,553	04 28 1992	Foster, et al	205 125		09 25 1989
AC ga	5,128,831	07 07 1992	Fox, III, et al	361 396		10 31 1991
AC ga	5,138,434	08 11 1992	Wood, et al	357 74		01 22 1991
AC ga	5,140,745	08 25 1992	McKenzie, Jr.	29 852		07 23 1990

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*Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if appropriate)
AC <i>gfr</i>	5,151,559	09/29/1992	Conru, et al	174 52.4		12/11/1991
AC <i>gfr</i>	5,155,068	10/19/92	Tada	438 125		01/06/1992
AC <i>gfr</i>	5,159,434	10/27/1992	Kohno, et al	358 80		02/01/1991
AC <i>gfr</i>	5,168,926	12/08/1992	Watson, et al	165 185		09/25/1991
AC <i>gfr</i>	5,198,888	03/30/1993	Sugano, et al	257 686		12/20/1990
AC <i>gfr</i>	5,214,307	05/25/1993	Davis	257 676		07/08/1991
AC <i>gfr</i>	5,214,845	07/01/1993	King, et al	29 841		05/11/1992
AC <i>gfr</i>	5,221,642	06/22/1993	Burns	437 207		08/15/1991
AC <i>gfr</i>	5,222,014	06/22/1993	Lin	361 414		03/02/1992
AC <i>gfr</i>	5,223,739	06/29/1993	Katsumata, et al	257 676		09/13/1990
AC <i>gfr</i>	5,231,304	07/27/1993	Solomon	257 684		07/10/1992
AC <i>gfr</i>	5,236,117	08/17/1993	Roane, et al	228 180.21		06/22/1992
AC <i>gfr</i>	5,239,447	08/24/1993	Cotues, et al	361 744		09/13/1991
AC <i>gfr</i>	5,241,454	08/31/1993	Ameen, et al	361 744		01/22/1992
AC <i>gfr</i>	5,243,133	09/07/1993	Engle, et al	174 52.4		02/18/1992
AC <i>gfr</i>	5,266,834	11/30/1993	Nishi, et al	257 706		07/21/1992
AC <i>gfr</i>	5,273,940	12/28/1993	Sanders	437 209		06/15/1992
AC <i>gfr</i>	5,279,029	01/18/1994	Burns	29 856		05/11/1993
AC <i>gfr</i>	5,281,852	01/25/1994	Normington	257 685		12/10/1991

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AC <i>gja</i>	5,311,401	05/10/1994	Gates, Jr., et al	361 760		07/09/1991
AC <i>gja</i>	5,313,096	05/17/1994	Eide	257 686		07/29/1992
AC <i>gja</i>	5,343,075	08/30/1994	Nishino	257 686		06/22/1992
AC <i>gja</i>	5,343,366	08/30/1994	Cipolla, et al	361 785		06/24/1992
AC <i>gja</i>	5,367,766	11/29/1994	Burns, et al	29 848		04/05/1993
AC <i>gja</i>	5,369,056	11/29/1994	Burns, et al	437 209		03/29/1993
AC <i>gja</i>	5,369,058	11/29/1994	Burns, et al	437 209		03/04/1994
AC <i>gja</i>	5,371,866	12/06/1994	Cady	395 400		06/01/1992
AC <i>gja</i>	5,373,189	12/13/1994	Massit, et al	257 686		07/30/1993
AC <i>gja</i>	5,377,077	12/27/1994	Burns	361 704		12/17/1993
AC <i>gja</i>	5,384,689	01/24/1995	Shen	361 761		12/20/1993
AC <i>gja</i>	5,397,916	03/14/1995	Normington	257 686		07/26/1993
AC <i>gja</i>	5,420,751	05/30/1995	Burns	361 707		10/08/1993
AC <i>gja</i>	5,426,566	06/20/1995	Beilstein, Jr., et al	361 735		01/04/1993
AC <i>gja</i>	5,446,313	08/29/1995	Masuda, et al	257 666		05/24/1993
AC <i>gja</i>	5,446,620	08/29/1995	Burns	361 704		10/08/1993
AC <i>gja</i>	5,475,920	12/19/1995	Burns, et al	29 856		03/04/1994
AC <i>gja</i>	5,479,318	12/26/1995	Burns	361 735		05/12/1995
AC <i>gja</i>	5,481,133	01/02/1996	Hsu	257 621		12/29/1994
AC <i>gja</i>	5,484,959	01/16/1996	Burns	174 524		12/11/1992

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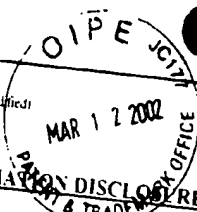
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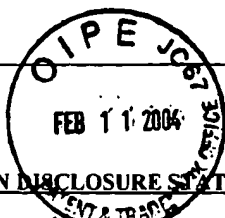
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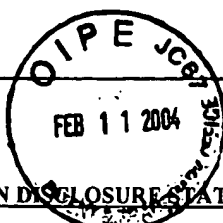
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						Yes	No
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